

# OIL ANALYSIS REPORT



## MCCLOSKEY 902 15 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA049711

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA049711	VPA040771	VPA040779	VPA040115
Sample Date	02 Nov 2023	10 Aug 2023	21 Apr 2023	12 Sep 2022
Machine Hours	2114	2024	1785	1404
Oil Hours	80	0	200	121
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	SEVERE	NORMAL

### MCCOURT & SONS EQUIPMENT INC

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LA GRANGE, TX  
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### OIL CONDITION

Visc @ 100°C	cSt	12.5	13.6	12.8	13.2
Base Number (BN)	mg KOH/g	8.1	9.0	7.4	8.6
Oxidation (PA)	%	62	54	45	44

### CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	43	53	58	55
Sulfation (PA)	%	57	52	50	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.1
Silicon	ppm	40	38	227	3
Sodium	ppm	2	2	5	3
Potassium	ppm	3	4	15	7

### WEAR METALS

Iron	ppm	19	20	131	4
Copper	ppm	1	7	30	14
Lead	ppm	<1	1	<1	2
Tin	ppm	<1	1	3	1
Aluminum	ppm	4	9	42	0
Chromium	ppm	2	1	8	<1
Molybdenum	ppm	73	51	36	25
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	1	<1
Silver	ppm	0	0	0	2
Manganese	ppm	<1	<1	3	<1
Vanadium	ppm	0	0	0	<1

### ADDITIVES

Calcium	ppm	1327	1261	2051	1909
Magnesium	ppm	456	864	395	154
Zinc	ppm	1076	1258	1149	982
Phosphorus	ppm	826	1018	920	777
Barium	ppm	0	0	0	0
Boron	ppm	394	12	24	80

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VP1121775  
Unique No: 10729702  
Signed: Jonathan Hester  
Report Date: 09 Nov 2023

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# VOLVO PENTA

## GRAPHS

